

LL300 Applications

- Elevation control across the construction site
- Excavations
- Basic slopes
- Leveling forms and footers
- Concrete pours
- 1 m (4 ft) marks

Spectra Precision LL300



The Toughest Laser Level You'll Ever Own

Built for General Contractors who Need Accuracy, Ease of Use and Durability

The automatic, self-leveling Spectra Precision® LL300 from Trimble is the most rugged laser level available, tough enough to handle a wide variety of general and concrete construction applications. Even in harsh jobsite conditions, the LL300 laser delivers consistently reliable and accurate performance, enabling you to work faster and smarter.

More contractors around the world use Spectra Precision lasers to increase construction job site productivity and profitability than any other brand. Each laser comes with the solid dependability that has made the Spectra Precision name the standard in the industry.

Rugged Construction Combined with Precise Accuracy and Ease of Use

We understand that those in the construction and concrete business are looking for products that are durable and reliable, day in and day out. The LL300 rotating laser is designed with your needs in mind. The result is a product that can be operated in the rain and provides superior drop and weather protection.

The rugged LL300 laser can withstand drops of up to three feet (one meter) onto concrete and tripod tipovers up to five feet (1.5 meters). This strength, combined with full weatherproofing and dustproofing, reduces downtime and lowers repair costs over the life of the product. The LL300 laser's self-leveling capability and optional RC601 remote control result in outstanding accuracy and ease of use. Since the LL300 laser levels itself when turned on, setup is easy with fewer controls to deal with.

The RC601 remote control gives you the option of matching slopes or having slopes-on-grade. It also offers single-axis slope including HI warning control with the other axis continuing to level itself.

Choice of Receiver

Choosing the right receiver ensures maximum performance from the LL300 laser. You can customize the LL300 laser to your specific application needs with a choice of the HL450 or CR600 receiver.



HL450 Laserometer

The HL450 features a digital readout of elevation that provides a numeric display of ± 1.5 inches or ± 38 mm. The readout is displayed on the large front and rear LCD's and shows exactly how far the elevation is from on-grade. The HL450 has a large 4 inch (102 mm) reception height for quick beam acquisition. An anti-strobe sensor prevents construction site strobe lights from setting it off.

CR600 Receiver

The Spectra Precision CR600 receiver is ideal for longer range leveling and basic machine control applications. In addition to use as a handheld and rod-mounted unit, the CR600 receiver can be mounted on a backhoe, small excavator or skid steer for machine control with 270° reception. It provides highly visible high, low or on-grade information.



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The Toughest Laser Level You'll Ever Own

LL300 Laser Features & Benefits

- Increases productivity with fast setups, fewer controls, and automatic self-leveling
- Maintains performance even in rainy, dusty and other harsh job site and weather conditions
- Durable design reduces downtime due to drops and tripod tipovers
- Minimizes power costs, increases reliability with choice of rechargeable or alkaline batteries
- Increases flexibility with remote control slope option
- Customizable to your needs with choice of two receivers

LL300 Laser Specifications

Laser Source 635 – 670 nm visible, Class 3A/3R
 Laser Accuracy 3/32 in per 100 ft (2.2 mm per 30 m)
 Operating Receiver Range (Diameter)..... 1,300 ft (400 m)
 w/HL450 or CR600 Receiver
 Self-Leveling Range ±5°
 Compensation Method Electronic Self Leveling
 Power Source..... 4 "D" Rechargeable or Alkaline Batteries
 Battery Life..... Rechargeable: 45 hours, Alkaline: 90 hours

Battery Status LED..... Flashing Red LED
 Battery Recharging Time Less than 10 hours
 Rotation Speed..... 600 rpm
 Out of Level (HI)-Warning..... Rotor stops, red out-of-level LED blinks
 Out of Level Warning at Receiver Programmable at dealer (with CR600 receivers only)
 Machine Control Compatible..... Yes
 Protective Rotor Cage (removable) Yes
 Drop Height on Concrete 3 ft (1 m)
 Single Axis Manual Slope Mode... Yes (w/self-leveling mode on the second axis), with optional RC601 remote control
 External Remote Control (Operating Range) 160 ft (up to 50 m)
 Tripod Mount (Horizontal and Vertical) 5/8"-11
 Operating Temperature.....-4 °F to 122 °F (-20 °C to +50 °C)
 Storage Temperature-4 °F to 158 °F (-20 °C to +70 °C)
 Waterproof Yes, IP54
 Size..... 9.6L x 6.5W x 7.3H in (24.5L x 16.5W x 18.5H cm)
 Weight 6 lbs (2.7 kg)
 Warranty 2 years



1. Protective rotor cage - easy twist-off
2. Visible spotting beam
3. Remote control sensor for manual and single axis slope modes
4. Intuitive, one touch operator controls
5. Battery recharge port
6. 5/8 tripod mount
7. Optional RC601 remote control

HL450 Laserometer Specifications

Reception Height 4 inches (102 mm)
 Digital Readout Height 3 inches (76 mm)
 On-Grade sensitivities..... Fine 1/16 in / 0.05 in / 1 mm
 Medium 1/4 in / 0.20 in / 5 mm
 Operating Range (diameter)..... 1,300 ft (400 m)
 Number of Display Channels..... 21
 Displays..... LCDs Front & Rear
 Decibel Level Low 65 / Loud 100+ dBa
 Low Battery Warning Yes
 Battery Life (AA-2) 70 hours
 Auto Shut-Off 30 minutes
 Drop Capable on Concrete..... 5 ft (1.5 m)
 Waterproof 100% (IP67)
 Weight (without clamp) 13.1 oz (371 g)
 Warranty 3 Years

CR600 Receiver Specifications

Seven On-Grade Sensitivities ... Ultra Fine 0.004 in (0.1 mm)
 Super Fine 1/32 in (1.0 mm) Fine 1/16 in (1.5 mm)
 Medium 1/8 in (3 mm) Coarse 1/4 in (6 mm)
 Machine Fine 3/8 in (10 mm) Machine Coarse 1 in (25 mm)
 Operating Range (diameter)..... 1,300 ft (400 m)
 Operating Temperature..... -4 °F to 122 °F (-20 °C to +50 °C)
 Number of Display Channels..... 15 (Linear)
 Battery Life (AA-3)..... 100 hours
 Auto Shut-Off 30 minutes
 Weight (without clamp) 12 oz (340 g)
 Displays... Large Front LCD, Ultra Bright Front LED Clusters
 Reception Angle..... 270°
 Out-of-level warning Yes
 Waterproof 100%
 Warranty 2 Years



HL450 Laserometer



CR600 Receiver

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